

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2058	((construct\$3 or generat\$3 or creat\$3) with (cell or field) with (format or type)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 14:07
L2	21307	(instance or class\$2) with (entity or attribut\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:51
L3	1	1 and L2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:42
L4	4030	((construct\$3 or generat\$3 or creat\$3) with (cell or field) with (format or type)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:43
L5	88	4 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:43
L6	4256	((data or attribut\$3 or entity) near type) and ((database\$ or table) same cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:43
L7	13	5 and L6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:43
L8	5	7 and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:54

EAST Search History

L9	0	("107016900").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:48
L10	2	("7016900").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:48
L11	24	((construct\$3 or generat\$3 or creat\$3) with (cell or field) with attribut\$3 with (format or type)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:54
L12	15	11 and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:52
L13	0	12 and (707/103).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:40
L14	42	((creat\$3 or generat\$3 or construct\$3) with (cell or field or table) with (entity or attribut\$3) with (instance or class\$2)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:41
L15	0	14 and (link\$3 with cell) and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:42
L16	7	1 and (link\$3 with cell) and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:51

EAST Search History

L17	0	1 and (link\$3 with cell with table) and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:51
L18	446	(link\$3 with cell with table) and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:51
L19	7853	(instance or class\$2) with (entity or attribut\$3 with identif\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 14:07
L20	3	18 and 19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:51
L21	3	20 and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:54
L22	5750	(instance or class\$2 with identif\$5) with (entity or attribut\$3 with identif\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:53
L23	0	1 and 22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:53
L24	5750	2 and 22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:54

EAST Search History

L25	28	4 and 22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 13:54
L26	9	25 and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 14:08
L27	2	("20060085457").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 14:02
L28	1023	((instance or class\$2) with identifier) with ((entity or attribut\$3) with identif\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 14:07
L29	66	((construct\$3 or generat\$3 or creat\$3) with (cell or field) with (format or type)) and 28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 14:07
L30	12	29 and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 14:11
L31	0	(collect\$3 with cell) and 28 and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 14:12
S1	4256	((data or attribut\$3 or entity) near type) and ((database\$ or table) same cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:43

EAST Search History

S2	262	((data or attribut\$3 or entity) near type near (ID or identif\$6)) and ((database\$ or table) same cell)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:20
S3	70749	(construct\$3 or generat\$3 or creat\$3) with (cell or field or table or tuple or column) with (format or type)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:23
S4	133	S2 and S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:22
S5	42	S4 and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:44
S6	10378	((construct\$3 or generat\$3 or creat\$3) with (cell or field or table or tuple or column) with (format or type)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:32
S7	1	S6 and S2 and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:25
S8	12	S6 and S1 and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:33
S9	8203	((construct\$3 or generat\$3 or creat\$3) with (cell or field) with (format or type)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 12:42

EAST Search History

S10	21307	(instance or class\$2) with (entity or attribut\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:32
S11	6	S9 and S10 and @ad<"20000603"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/20 11:33

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1 [Emancipating instances from the tyranny of classes in information modeling](#)



Jeffrey Parsons, Yair Wand

June 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(204.47 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database design commonly assumes, explicitly or implicitly, that instances must belong to classes. This can be termed the assumption of inherent classification. We argue that the extent and complexity of problems in schema integration, schema evolution, and interoperability are, to a large degree, consequences of inherent classification. Furthermore, we make the case that the assumption of inherent classification violates philosophical and cognitive guidelines on classifica ...

Keywords: classification, conceptual modeling, database design, interoperability, ontology, schema evolution, schema integration

2 [UML-B: Formal modeling and design aided by UML](#)



Colin Snook, Michael Butler

January 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(822.70 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The emergence of the UML as a de facto standard for object-oriented modeling has been mirrored by the success of the B method as a practically useful formal modeling technique. The two notations have much to offer each other. The UML provides an accessible visualization of models facilitating communication of ideas but lacks formal precise semantics. B, on the other hand, has the precision to support animation and rigorous verification but requires significant effort in training to overcome the ...

Keywords: Modeling, UML-B, refinement

3 [Research papers: adaptive, automatic, autonomic systems: AGILE: adaptive indexing for context-aware information filters](#)



Jens-Peter Dittrich, Peter M. Fischer, Donald Kossmann

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(630.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Information filtering has become a key technology for modern information systems. The goal of an information filter is to route messages to the right recipients (possibly none) according to declarative rules called profiles. In order to deal with high volumes of messages, several index structures have been proposed in the past. The challenge addressed in this paper is to carry out *stateful* information filtering in which profiles refer to values in a database or to previous messages. The d ...

4 A requirements and design aid for relational data bases

Max L. Wilson

March 1981 **Proceedings of the 5th international conference on Software engineering**

Publisher: IEEE Press

Full text available: pdf(910.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A tool is described for defining data processing system requirements and for automatically generating data base designs from the requirements. The generated designs are specific to System R but the mapping rules are valid for the relational model in general and can be adapted to other data models as well. The requirements and design are stored in a System R data base, are cross-referenced with each other, and can be accessed and used for other purposes. The requirements are defined in terms ...

5 Secure and selective dissemination of XML documents



Elisa Bertino, Elena Ferrari

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(678.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemina ...

Keywords: Access control, XML, secure distribution

6 An analysis of geometric modeling in database systems



Alfons Kemper, Mechthild Wallrath

March 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 1

Publisher: ACM Press

Full text available: pdf(2.95 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The data-modeling and computational requirements for integrated computer aided manufacturing (CAM) databases are analyzed, and the most common representation schemes for modeling solid geometric objects in a computer are described. The *primitive instancing* model, the *boundary representation*, and the *constructive solid geometry* model are presented from the viewpoint of database representation. Depending on the representation scheme, one can apply geometric transformation ...

7 Modeling concepts for VLSI CAD objects



D. S. Batory, Won Kim

September 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 3

Publisher: ACM Press

Full text available: pdf(1.76 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

VLSI CAD applications deal with design objects that have an interface description and an implementation description. Versions of design objects have a common interface but differ in their implementations. A molecular object is a modeling construct which enables a database entity to be represented by two sets of heterogeneous records, one set describes the object's interface and the other describes its implementation. Thus a reasonable starting point for modeling design objects is to begin w ...

8 An equational object-oriented data model and its data-parallel query language



Susumu Nishimura, Atsushi Ohori, Keishi Tajima

October 1996 **ACM SIGPLAN Notices , Proceedings of the 11th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '96**, Volume 31 Issue 10

Publisher: ACM Press

Full text available: pdf(1.98 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an equational formulation of an object-oriented data model. In this model, a database is represented as a *system of equations* over a set of oid's, and a database query is a transformation of a system of equations into another system of equations. During the query processing, our model maintains an *equivalence relation* over oid's that relates oid's corresponding to the same "real-world entity." By this mechanism, the model achieves a declarative set-based query I ...

9 Types and persistence in database programming languages



Malcolm P. Atkinson, O. Peter Buneman

June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Publisher: ACM Press

Full text available: pdf(7.91 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

10 A query service for a software engineering database system



Mohamed Tedjini, Ian Thomas, Guy Benoliel, Fernando Gallo, Régis Minot

October 1990 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fourth ACM SIGSOFT symposium on Software development environments SDE 4**, Volume 15 Issue 6

Publisher: ACM Press

Full text available: pdf(1.23 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The PCTE interfaces define a Public Tool Interface intended to serve as a basis for the construction of integrated software engineering environments (SEEs). The interfaces include Object Management System (OMS) services that manage the data repository of

the environment. The OMS is based on a binary Entity-Relationship model. This paper describes a query service constructed on the PCTE interfaces. Following a brief summary of the OMS features that are necessary to understand the ...

11 Process modeling in Web applications



Marco Brambilla, Stefano Ceri, Piero Fraternali, Ioana Manolescu

October 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(1.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While Web applications evolve towards ubiquitous, enterprise-wide or multienterprise information systems, they face new requirements, such as the capability of managing complex processes spanning multiple users and organizations, by interconnecting software provided by different organizations. Significant efforts are currently being invested in application integration, to support the composition of business processes of different companies, so as to create complex, multiparty business scenarios. ...

Keywords: Web applications, Web engineering, conceptual modeling, workflows

12 Sharing code among instances of Ada generics



Gary Bray

June 1984 **ACM SIGPLAN Notices , Proceedings of the 1984 SIGPLAN symposium on Compiler construction SIGPLAN '84**, Volume 19 Issue 6

Publisher: ACM Press

Full text available: pdf(732.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes the aspects of the Ada compiler for the Air Force Ada Integrated Environment (AIE) that are concerned with sharing code among generic instances. Sharing is achieved by forming equivalence classes of generic instances and sharing executable code among members of the class. This approach achieves the required efficiency for embedded applications while minimizing the storage consumed by the executable code of generic instances.

13 Modeling methodology b: Distributed simulation and manufacturing: distributed simulation with cots simulation packages

Csaba Attila Boer, Alexander Verbraeck

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

Full text available: pdf(508.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Connecting COTS (Commercial-off-the-Self) simulation packages entails various difficulties. First of all, commercially available simulation packages hide the access to some internal data that is needed to connect to other simulation models in the distributed simulation study. Next, the data sharing between simulation models is complicated. In order to carry out distributed simulation studies applying COTS simulation packages, we have to exactly define the interfacing and data transfer mechanisms ...

14 Self-assessment procedure VIII: a self-assessment procedure dealing with the programming language Ada



Peter Wegner

October 1981 **Communications of the ACM**, Volume 24 Issue 10

Publisher: ACM Press

Full text available: pdf(2.41 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 An ontological analysis of the relationship construct in conceptual modeling



Yair Wand, Veda C. Storey, Ron Weber

December 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(184.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Conceptual models or semantic data models were developed to capture the meaning of an application domain as perceived by someone. Moreover, concepts employed in semantic data models have recently been adopted in object-oriented approaches to systems analysis and design. To employ conceptual modeling constructs effectively, their meanings have to be defined rigorously. Often, however, rigorous definitions of these constructs are missing. This situation occurs especially in the case of the re ...

Keywords: conceptual modeling, database design, entity-relationship model, object-oriented modeling, ontology, semantic data modeling

16 The V distributed system



David Cheriton

March 1988 **Communications of the ACM**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(2.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The V distributed System was developed at Stanford University as part of a research project to explore issues in distributed systems. Aspects of the design suggest important directions for the design of future operating systems and communication systems.

17 Facilitating connectivity in composite information systems



Richard Wang, Stuart E. Madnick

June 1989 **ACM SIGMIS Database**, Volume 20 Issue 3

Publisher: ACM Press

Full text available: pdf(941.70 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Timely access to multiple disparate databases which were independently developed and administered to produce composite information has become increasingly critical for organizations to gain competitive advantage. However, many inter-database problems such as inconsistency, ambiguity, and contradiction remain unresolved. This paper presents an approach for resolving these problems. The techniques employed in this approach include schema integration, inter-database tables, attribute subsetting, ob ...

18 Ubiquitous WWW: Implementing physical hyperlinks using ubiquitous identifier resolution



Tim Kindberg

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available: pdf(400.83 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Identifier resolution is presented as a way to link the physical world with virtual Web resources. In this paradigm, designed to support nomadic users, the user employs a handheld, wirelessly connected, sensor-equipped device to read identifiers associated with physical entities. The identifiers are resolved into virtual resources or actions related to

the physical entities - as though the user 'clicked on a physical hyperlink'. We have integrated identifier resolution with the Web so that it ca ...

Keywords: identifier resolution, mobile computing, nomadic computing, physical hyperlinks, ubiquitous computing

19 A comparative evaluation of object definition techniques for large prototype systems



Jack C. Wileden, Lori A. Clarke, Alexander L. Wolf

October 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 12 Issue 4

Publisher: ACM Press

Full text available: pdf(2.47 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Although prototyping has long been touted as a potentially valuable software engineering activity, it has never achieved widespread use by developers of large-scale, production software. This is probably due in part to an incompatibility between the languages and tools traditionally available for prototyping (e.g., LISP or Smalltalk) and the needs of large-scale-software developers, who must construct and experiment with large prototypes. The recent surge of interest in app ...

20 Design and development of data-intensive web sites: The Araneus approach



Paolo Merialdo, Paolo Atzeni, Giansalvatore Mecca

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Data-intensive Web sites are large sites based on a back-end database, with a fairly complex hypertext structure. The paper develops two main contributions: (a) a specific design methodology for data-intensive Web sites, composed of a set of steps and design transformations that lead from a conceptual specification of the domain of interest to the actual implementation of the site; (b) a tool called Homer, conceived to support the site design and implementation process, by allowing the ...

Keywords: Databases, Internet, WWW, World Wide Web, development

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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

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